

## Refine Search

### Search Results -

Terms	Documents
externally ADJ referenced ADJ interface	0

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
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Search:

L6

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Friday, May 13, 2005   [Printable Copy](#)   [Create Case](#)

**Set Name Query**  
side by side

**Hit Count Set Name**  
result set

*DB=USPT; PLUR=NO; OP=OR*

<u>L6</u>	externally ADJ referenced ADJ interface	0	<u>L6</u>
<u>L5</u>	externally ADJ reference ADJ interface	0	<u>L5</u>
<u>L4</u>	L1 and (bytecode or (byte ADJ code))	2	<u>L4</u>
<u>L3</u>	L1 AND (detect near interface)	0	<u>L3</u>
<u>L2</u>	L1 detect	368920	<u>L2</u>
<u>L1</u>	referenced ADJ interface	49	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
L1 and (bytecode or (byte ADJ code))	2

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
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 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L4





### Search History

DATE: Friday, May 13, 2005    [Printable Copy](#)    [Create Case](#)

**Set Name Query**  
side by side

**Hit Count Set Name**  
result set

*DB=USPT; PLUR=NO; OP=OR*

<u>L4</u>	L1 and (bytecode or (byte ADJ code))	2	<u>L4</u>
<u>L3</u>	L1 AND (detect near interface)	0	<u>L3</u>
<u>L2</u>	L1 detect	368920	<u>L2</u>
<u>L1</u>	referenced ADJ interface	49	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

Search Results - Record(s) 1 through 2 of 2 returned.

☒ 1. Document ID: US 6793143 B2

L4: Entry 1 of 2

File: USPT

Sep 21, 2004

US-PAT-NO: 6793143

DOCUMENT-IDENTIFIER: US 6793143 B2

TITLE: Data carrier

DATE-ISSUED: September 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frey; Thomas	Ebersberg			DE
Merck; Martin	Munchen			DE

US-CL-CURRENT: 235/492

ABSTRACT:

A data carrier for interpreter-based execution of an application existing in the form of an application program resulting from an object-oriented source program includes a communication device (10), and a memory device (12) containing at least one application program and an interpreter unit (15). The application program is structured in class files (22) each containing a library section (25) whose entries (46) are formed by invariable elements of the interaction context and which is structured in a sequence of equally long segments (50) each comprising a predetermined number of bytes. A certain number of segments (5) forms an entry (46). The physical position of the first segment of each entry (46) within the byte sequence is used by the interpreter unit (15) as a reference for the entry (46).

8 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOC	Draw De
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☒ 2. Document ID: US 6353923 B1

L4: Entry 2 of 2

File: USPT

Mar 5, 2002

US-PAT-NO: 6353923

DOCUMENT-IDENTIFIER: US 6353923 B1

TITLE: Active debugging environment for debugging mixed-language scripting code

DATE-ISSUED: March 5, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bogle; Phillip Lee	Redmond	WA		
Katzenberger; Gary S.	Woodinville	WA		
McKelvie; Samuel James	Seattle	WA		
Welland; Robert Victor	Seattle	WA		

US-CL-CURRENT: 717/128

## ABSTRACT:

An active debugging environment for debugging a virtual application that contains program language code from multiple compiled and/or interpreted programming languages. The active debugging environment is language neutral and host neutral, where the host is a standard content centric script host with language engines for each of the multiple compiled and/or interpreted programming languages represented in the virtual application. The active debugging environment user interface can be of any debug tool interface design. The language neutral and host neutral active debugging environment is facilitated by a process debug manager that catalogs and manages application specific components, and a machine debug manager that catalogs and manages the various applications that comprise a virtual application being run by the script host. The process debug manager and the machine debug manager act as an interface between the language engine specific programming language details and the debug user interface.

20 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Drawing
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L1 and (bytecode or (byte ADJ code))	2

Display Format:  [Previous Page](#)   [Next Page](#)   [Go to Doc#](#)

# Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 50 of 57 returned.

☐ 1. Document ID: US 6886174 B2

L10: Entry 1 of 57

File: USPT

Apr 26, 2005

US-PAT-NO: 6886174

DOCUMENT-IDENTIFIER: US 6886174 B2

TITLE: Optical disk drive module for lifting up and lowering a disk drive

DATE-ISSUED: April 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huang; Chin-Chuan	Taipei Hsien			TW
Ko; Chin-Yi	Taipei			TW

US-CL-CURRENT: 720/600

ABSTRACT:

An optical disk drive module installed in a flat panel display personal computer is provided for lifting up and lowering a disk drive. The optical disk drive module includes a chassis module and a drive carrier. The chassis module is disposed at a rear side of a flat panel display of the flat panel display personal computer. The drive carrier is rotatably disposed in the chassis module for positioning the disk drive. A user can utilize the optical disk drive module to raise up the disk drive so as to position the disk drive at the rear side of the flat panel display. Similarly, the user can also utilize the optical disk drive module to lower the disk drive so as to expose the disk drive below the flat panel display.

9 Claims, 9 Drawing figures

Exemplary Claim Number: 7

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 2. Document ID: US 6859427 B2

L10: Entry 2 of 57

File: USPT

Feb 22, 2005

US-PAT-NO: 6859427

DOCUMENT-IDENTIFIER: US 6859427 B2

TITLE: Medium, apparatus, and method related to encryption resultant information

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Mitsuaki	Kyoto			JP

US-CL-CURRENT: 369/53.11; 369/47.12, 369/53.21, 380/228, 705/57

ABSTRACT:

A disk-shaped recording medium includes a transparent substrate, and an optical recording layer formed on the transparent substrate. A light source emits light. An optical head is operative for applying the light to the optical recording layer from the light source via the transparent substrate, for focusing the light on the optical recording layer, and for reproducing information from the optical recording layer. A position detecting device is operative for detecting at least one of a pit depth and a physical position of information which has a first given relation with a specified address and which is recorded on the recording medium, and for generating first positional information representing at least one of the pit depth and the physical position. A previously-recorded secret code is reproduced from the recording medium. The secret code represents second positional information. The secret code is decoded into the second positional information. The second positional information represents at least one of a predetermined reference pit depth and a predetermined reference physical position. The first positional information and the second positional information are collated, and a check is made as to whether or not the first positional information and the second positional information are in a second given relation. When the first positional information and the second positional information are not in the second given relation, one of outputting of a reproduced signal of the recording medium, operation of a program stored in the recording medium, and decoding of the secret code is stopped.

11 Claims, 522 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 281

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 3. Document ID: US 6779004 B1

L10: Entry 3 of 57

File: USPT

Aug 17, 2004

US-PAT-NO: 6779004

DOCUMENT-IDENTIFIER: US 6779004 B1

TITLE: Auto-configuring of peripheral on host/peripheral computing platform with peer networking-to-host/peripheral adapter for peer networking connectivity

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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US-CL-CURRENT: 709/227; 709/250, 710/10, 719/321

## ABSTRACT:

A self-installing and configuring peer networking-to-host/peripheral connectivity adapter, such as a set of software modules running on a host, operates to convert between a device control protocol with peer networking connectivity and a host/peripheral connectivity protocol for a set of host-connected peripheral devices. The adapter is automatically installed on the host upon connecting a new peripheral device, such as by a plug-and-play operating system of the host. The adapter operates as a peer-networking addressable controlled device module, which responds to communication in the device control protocol from other peer devices that are networked with the host. The adapter converts the device control protocol communications from the peer devices into a host/peripheral protocol for controlling the peripheral devices. The peripheral devices thereby are controllable as peer networking devices via the peer networking connectivity device control protocol.

9 Claims, 41 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 38

Full	Title	Citation	Front	Revision	Classification	Date	Reference	Claims	Name	Drawn
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☐ 4. Document ID: US 6772338 B1

L10: Entry 4 of 57

File: USPT

Aug 3, 2004

US-PAT-NO: 6772338

DOCUMENT-IDENTIFIER: US 6772338 B1

TITLE: Device for transferring data between an unconscious capture device and another device

DATE-ISSUED: August 3, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hull; Jonathan J.	Cupertino	CA		

US-CL-CURRENT: 713/168; 713/189, 713/194, 713/200, 713/201

## ABSTRACT:

Apparatuses and methods are disclosed for accessing and distributing data that includes a portable first device and a second device wherein both devices have unconscious capture capability. The first device has a first memory wherein at least one document is stored in the first memory of the first device. The first device has a transceiver, an identifier, and a public key to access a second device.

30 Claims, 3 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 5. Document ID: US 6760748 B1

L10: Entry 5 of 57

File: USPT

Jul 6, 2004

US-PAT-NO: 6760748  
DOCUMENT-IDENTIFIER: US 6760748 B1

TITLE: Instructional system grouping student terminals

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hakim; Omar Besim	Dallas	TX		

US-CL-CURRENT: 709/204; 434/350, 434/351, 715/705, 715/707, 715/708, 717/178

ABSTRACT:

An interactive electronic instructional system is a teaching interface between a teacher and students where data is transmitted from the teacher's terminal to the student terminals. The data is received at the student terminals and is separated into execution data and instructional data. The student terminals are grouped into teams allowing student teams to interact with a group decision. This encourages team participation by shy or otherwise reluctant students. Team answer data is transmitted from one of the student terminals in the team to the teacher's terminal. The teacher monitors team answer data to infer class progress towards a goal. The teacher may modify the instructional data based on the progress.

19 Claims, 20 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 20

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 6. Document ID: US 6741457 B2

L10: Entry 6 of 57

File: USPT

May 25, 2004

US-PAT-NO: 6741457  
DOCUMENT-IDENTIFIER: US 6741457 B2

TITLE: Optical disk drive module with an engaging switch

DATE-ISSUED: May 25, 2004



## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huang; Chin-Chuan	Taipei Hsien			TW

US-CL-CURRENT: 361/681; 361/683, 361/685, 361/686

## ABSTRACT:

An optical disk drive module with an engaging switch installed in a flat panel display personal computer is provided for lifting up and lowering a disk drive. The optical disk drive module includes a chassis module, a drive carrier, a cover, a button, and an engaging switch. When a user depresses the button, the button will push the engaging switch to separate the engaging switch from the cover, and the drive carrier will swing away from the chassis module to expose the disk drive below the flat panel display.

10 Claims, 6 Drawing figures

Exemplary Claim Number: 7

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Book	Page
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☐ 7. Document ID: US 6728787 B1

L10: Entry 7 of 57

File: USPT

Apr 27, 2004

US-PAT-NO: 6728787

DOCUMENT-IDENTIFIER: US 6728787 B1

TITLE: System and method for locating and installing device drivers for peripheral devices

DATE-ISSUED: April 27, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leigh; Darren L.	Belmont	MA		

US-CL-CURRENT: 719/327; 713/1, 713/100, 713/2, 717/178, 719/321, 719/322, 719/323, 719/324, 719/325, 719/326

## ABSTRACT:

A destination computer reads a device identification and a network address from a peripheral device connected to the destination computer. A device driver, corresponding to the device identification, is then retrieved from the source computer at the network address. A device driver installation program can also be retrieved from the source computer. The device driver installation program is executed in the destination computer to determine the configuration of the destination computer. The destination computer requests the device driver for the peripheral device corresponding to the configuration of the destination computer from the source computer. The device driver is installed in the destination computer.

21 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	1000	Draw
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☐ 8. Document ID: US 6721489 B1

L10: Entry 8 of 57

File: USPT

Apr 13, 2004

US-PAT-NO: 6721489

DOCUMENT-IDENTIFIER: US 6721489 B1

TITLE: Play list manager

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benyamin; Daniel	Oakland	CA		
Lau; Dannie C.	Santa Clara	CA		
Dowling; Brendan T.	Malibu	CA		

US-CL-CURRENT: 386/46; 386/55

ABSTRACT:

A play list manager is disclosed that can be used to create and update play lists. The play lists can be used for audio information, visual information, or a combination of audio and visual information. The user of the play list manager creates a play list and specifies certain criteria for automatically adding tracks to the play list. When a new track is added to the environment, the system tests whether the track's properties satisfy the criteria for the play list. If so, the new track is automatically added to the play list. In one alternative, a user can select a predefined play list, whose criteria has already been created. Upon selection of the predefined play list, the play list manager accesses each track and adds the track to the play list if the track's properties satisfy the criteria for the predefined play list.

51 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	1000	Draw
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☐ 9. Document ID: US 6709869 B2

L10: Entry 9 of 57

File: USPT

Mar 23, 2004

US-PAT-NO: 6709869

DOCUMENT-IDENTIFIER: US 6709869 B2

TITLE: Devices and methods for using centripetal acceleration to drive fluid movement in a microfluidics system

DATE-ISSUED: March 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mian; Alec	Cambridge	MA		
Kieffer-Higgins; Stephen G.	Dorchester	MA		
Corey; George D.	Newton	MA		

US-CL-CURRENT: 436/45; 422/50, 422/63, 422/64, 422/67, 422/72, 436/43, 436/63, 436/66, 436/70

ABSTRACT:

This invention relates to methods and apparatus for performing microanalytic and microsynthetic analyses and procedures. The invention provides a microsystem platform and a micromanipulation device for manipulating the platform that utilizes the centripetal force resulting from rotation of the platform to motivate fluid movement through microchannels. The microsystem platforms of the invention are also optionally provided having system informatics and data acquisition, analysis and storage and retrieval informatics encoded on the surface of the disk opposite to the surface containing the fluidic components. Methods specific for the apparatus of the invention for performing any of a wide variety of microanalytical or microsynthetic processes are provided.

14 Claims, 68 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 64

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 10. Document ID: US 6674703 B2

L10: Entry 10 of 57

File: USPT

Jan 6, 2004

US-PAT-NO: 6674703

DOCUMENT-IDENTIFIER: US 6674703 B2

TITLE: Medium, apparatus, and method related to encryption resultant information

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Mitsuaki	Kyoto			JP

US-CL-CURRENT: 369/53.11; 369/47.12, 369/53.21, 380/228

ABSTRACT:

A disk-shaped recording medium includes a transplant substrate, and an optical recording layer formed on the transparent substrate. A light source emits light. An optical head is operative for applying the light to the optical recording layer from the light source via the transparent substrate, for focusing the light on the optical recording layer, and for reproducing information from the optical recording layer. A position detecting device is operative for detecting at least one of a pit depth and a physical position of information which has a first given relation with a specified address and which is recorded on the recording medium, and for generating first positional information representing at least one of the pit depth and the physical position. A previously-recorded secret code is reproduced from the recording medium. The secret code represents second positional information. The secret code is decoded into the second positional information. The second positional information represents at least one of a predetermined reference pit depth and a predetermined reference physical position. The first positional information and the second positional information are collated, and a check is made as to whether or not the first positional information and the second positional information are in a second given relation. When the first positional information and the second positional information are not in the second given relation, one of outputting of a reproduced signal of the recording medium, operation of a program stored in the recording medium, and decoding of the secret code is stopped.

5 Claims, 531 Drawing figures  
 Exemplary Claim Number: 1  
 Number of Drawing Sheets: 281

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 11. Document ID: US 6636961 B1

L10: Entry 11 of 57

File: USPT

Oct 21, 2003

US-PAT-NO: 6636961

DOCUMENT-IDENTIFIER: US 6636961 B1

TITLE: System and method for configuring personal systems

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Braun; Timothy L.	Susquehanna	PA		
Murray; Douglas G.	Johnson City	NY		

US-CL-CURRENT: 713/1; 713/100

ABSTRACT:

A system previously cloned with an operating system and a collection of applications has personal configuration data customized for the user receiving the system by a configuration tool. When the configuration tool is used in an interactive mode, a dialog displays the existing configuration and allows the installer or user to modify and save it. When the configuration tool is used in a non-interactive mode, that is, for migration, the machine configuration information is obtained from or put to an operating system independent configuration data file

without using the configuration dialog. In interactive mode, a user dialog is displayed with the list of all the supported applications that are found to be installed on the system. Selecting one of the listed applications brings up an application dialog including input fields for each of the configuration items for that application. Configuration data can be imported from or exported to the configuration data file 160. This allows an installer to export from an old system and import into the new one when hardware is being upgraded. Also, the import and export feature is used to automate configuration and information gathering.

17 Claims, 13 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Draw
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☐ 12. Document ID: US 6606240 B2

L10: Entry 12 of 57

File: USPT

Aug 12, 2003

US-PAT-NO: 6606240

DOCUMENT-IDENTIFIER: US 6606240 B2

TITLE: Optical disk drive module with an electromagnetic switch

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huang; Chin-Chuan	Taipei Hsien			TW

US-CL-CURRENT: 361/685; 248/560, 361/704

ABSTRACT:

An optical disk drive module installed in a flat panel display personal computer is provided for lifting up and lowering a disk drive. The optical disk drive module includes a chassis module, a drive carrier, a cover, a switch, a control unit, and an electromagnetic switch. When the switch is depressed, the switch will generate a trigger signal, the control unit will receive the trigger signal and generate a corresponding pulse, the pulse will cause the electromagnetic switch to separate from the cover, and then the drive carrier will swing away from the chassis module to lower the disk drive.

9 Claims, 8 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Draw
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☐ 13. Document ID: US 6591358 B2

US-PAT-NO: 6591358

DOCUMENT-IDENTIFIER: US 6591358 B2

TITLE: Computer system with operating system functions distributed among plural microcontrollers for managing device resources and CPU

DATE-ISSUED: July 8, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jaffrey; Syed Kamal H.	Watertown	MA	02472	

US-CL-CURRENT: 712/32; 700/19, 700/3, 710/104, 710/15, 710/8, 713/1, 713/2, 719/327

## ABSTRACT:

A hardware/firmware layer comprising a Device Manager, an Information Manager, a Memory Manager, and a Process Manager contained in one or more semiconductor chips is disclosed. The hardware/firmware layer eliminates the need for an operating system. Each of the Managers comprises a microcontroller associated with a firmware embedded in ROM or Flash memory that contains instruction sets that cause the microcontroller to provide a designated task of device management, information management, memory management and process management. In another aspect of the invention, devices connected to the computer system are "smart devices," each device having a device microcontroller and embedded device drivers in a ROM or Flash memory. The hardware/firmware of the present invention does not need to search for available devices, provide diagnostic tests or obtain device drivers to communicate with the devices. Instead, the device microcontroller uses the embedded device driver to perform configuration and self diagnostic test as well as device operations. If the device is operational, the device microcontroller sends an identification signal to the hardware/firmware layer of the present to indicate availability of the device.

7 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 14. Document ID: US 6539538 B1

L10: Entry 14 of 57

File: USPT

Mar 25, 2003

US-PAT-NO: 6539538

DOCUMENT-IDENTIFIER: US 6539538 B1

TITLE: Intelligent information routing system and method

DATE-ISSUED: March 25, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brewster; James A.	Plano	TX		
Subramanian; Srikanth	Plano	TX		
Hite; Thomas D.	Allen	TX		
Lee; Gene W.	Plano	TX		
Brannick; Gary L.	Plano	TX		

US-CL-CURRENT: 717/115; 379/10.03, 717/100, 717/101

ABSTRACT:

An intelligent information router system comprising a telephony controller coupled to a private branch exchange through a link interface. The telephony controller may communicate with a handle manager and a script interpreter engine. The telephony controller may receive information from the link interface regarding telephone calls being placed to the private branch exchange. The telephony controller may initiate actions with the script interpreter engine that access information stored in a database through a database controller. In response to action of the script interpreter engine, the telephony controller may instruct the private branch exchange to route the call to an appropriate location within a company depending on the information received by the private branch exchange through automatic transmission of data or interaction with the calling party.

5 Claims, 26 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Revision	Classification	Date	Reference	Claims	Index	Drawings
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☐ 15. Document ID: US 6484189 B1

L10: Entry 15 of 57

File: USPT

Nov 19, 2002

US-PAT-NO: 6484189

DOCUMENT-IDENTIFIER: US 6484189 B1

TITLE: Methods and apparatus for a multimedia authoring and presentation system

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerlach, Jr.; John D.	Falls Church	VA		
Kannan; Narasimhan P.	McLean	VA		

US-CL-CURRENT: 715/730, 715/763, 715/810, 715/817, 715/835, 715/841, 715/967

ABSTRACT:

A multimedia authoring system uses a graphic interface display which is implemented as a part of a flow editor and is used to create and to program interactive multimedia presentations and coursework. The authoring system also includes other

editors (e.g., a database editor, an expression editor, and an object editor) used to perform other editing functions required to create presentations. The system also includes control systems (e.g., an applications mover, a videodisc controller, and a help system) which also enable the user to create, program, execute and manipulate interactive multimedia presentations. Finally, the system includes an evaluator which evaluates a programmed presentation and implements the presentation. A process of creating and evaluating a presentation using selectable icons from an icon menu area of the display screen and a grid area of the display screen includes receiving an input selecting an icon from the icon menu area, storing in the memory a data structure associated with the selected icon, displaying a new icon corresponding to the data structure on the grid area, and performing an action represented by an action identifier included in the data structure.

20 Claims, 59 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	1000	Draw
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☐ 16. Document ID: US 6319469 B1

L10: Entry 16 of 57

File: USPT

Nov 20, 2001

US-PAT-NO: 6319469

DOCUMENT-IDENTIFIER: US 6319469 B1

TITLE: Devices and methods for using centripetal acceleration to drive fluid movement in a microfluidics system

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mian; Alec	Cambridge	MA		
Kieffer-Higgins; Stephen G.	Dorchester	MA		
Corey; George D.	Newton	MA		

US-CL-CURRENT: 422/64, 422/63, 422/67, 422/72, 436/45

ABSTRACT:

This invention relates to methods and apparatus for performing microanalytic and microsynthetic analysis and procedures. The invention provides a microsystem platform and a micromanipulation device for manipulating the platform that utilizes the centripetal force resulting from rotation of the platform to motivate fluid movement through microchannels. The microsystem platforms of the invention are also optionally provided having system informatics and data acquisition, analysis and storage and retrieval informatics encoded on the surface of the disk opposite to the surface containing the fluidic components. Methods specific for the apparatus of the invention for performing any of a wide variety of microanalytical or microsynthetic processes are provided.

68 Claims, 68 Drawing figures



Exemplary Claim Number: 1  
Number of Drawing Sheets: 64

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 17. Document ID: US 6314516 B1

L10: Entry 17 of 57

File: USPT

Nov 6, 2001

US-PAT-NO: 6314516  
DOCUMENT-IDENTIFIER: US 6314516 B1

TITLE: Method and apparatus for configuring communications settings in a computer system

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cagle; John M.	Houston	TX		
Potter; Mark R.	Houston	TX		
Mullapudi; Mohana Rao	Cypress	TX		
Simpson; Mark	Houston	TX		
Neubauer; Wolfgang M.	Munich			DE

US-CL-CURRENT: 713/1; 713/100

ABSTRACT:

A method for configuring communications settings in a computer system is provided. The method includes receiving a configuration settings file. The configuration settings file includes global connection settings, a connection type, and connection type specific settings. A communications link is configured to address a service provider based on the global settings. An access device in the computer system is configured based on the connection type and the connection type specific settings.

26 Claims, 4 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 18. Document ID: US 6298017 B1

L10: Entry 18 of 57

File: USPT

Oct 2, 2001

US-PAT-NO: 6298017  
DOCUMENT-IDENTIFIER: US 6298017 B1  
\*\* See image for Certificate of Correction \*\*

TITLE: Locking method and apparatus for multi-disk cartridge

DATE-ISSUED: October 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kulakowski; John Edward	Tucson	AZ		
Means; Rodney Jerome	Tucson	AZ		

US-CL-CURRENT: 369/36.01; 360/92, 369/30.54, 369/30.83, 369/30.84

ABSTRACT:

A method and apparatus for ensuring the proper position and orientation of a multi-disk cartridge, and for selectively locking the cartridge while it is inserted in a disk drive to prevent withdrawal of the cartridge while the disk drive is conveying one of the cartridge's disks. The disk drive of the invention includes a guide to slidably receive a multi-disk cartridge. When the cartridge is inserted in the guide, presence of the cartridge in the drive is detected by a position sensor. Having detected the presence of the cartridge, an orientation sensor determines whether the cartridge has been oriented properly. This prevents upside-down insertion of the cartridge, for example. With the cartridge fully inserted into the guide in a proper orientation, a locking mechanism serves to lock the cartridge in place at selected times. The cartridge may be locked in place, for example, at all times when the cartridge is inserted into the guide, or merely during sensitive operations of the disk drive.

20 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Image
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☐ 19. Document ID: US 6289397 B1

L10: Entry 19 of 57

File: USPT

Sep 11, 2001

US-PAT-NO: 6289397

DOCUMENT-IDENTIFIER: US 6289397 B1

TITLE: Disk drive or like peripheral storage device adapted for firmware upgrading, self-testing, etc.

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsuyuguchi; Hiroshi	Tokyo			JP
Osawa; Tsuyoshi	Tanashi			JP
Nakamura; Satoshi	Tachikawa			JP
Yabuki; Sadao	Hinode-machi			JP

US-CL-CURRENT: 710/1; 710/2, 710/3, 710/36, 710/4, 710/5, 710/6, 711/1, 711/102,  
711/103, 711/115, 711/4, 711/5

ABSTRACT:

A flexible magnetic disk drive is disclosed which is linked to a computer via a universal serial bus interface having firmware held on a read-only memory. In order to facilitate the upgrading of the firmware, an electrically erasable, programmable ROM is employed for firmware storage. Each new firmware version is issued in the form of a flexible magnetic disk which may be loaded in the disk drive just like an ordinary data disk, only with the disk drive disconnected from the computer as far as data transmission is concerned. The EEPROM is preprogrammed to identify the loaded firmware disk, erase the old firmware version on the ROM, and write the new version thereon. In another embodiment a self-testing program disk is employed in place of the firmware disk, for performing a set of tests on the disk drive including the interface. The tests are conducted automatically as the self-testing program disk is loaded in the disk drive, again with the disk drive disconnected from the computer.

13 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	DOC	Draw
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☐ 20. Document ID: US 6243330 B1

L10: Entry 20 of 57

File: USPT

Jun 5, 2001

US-PAT-NO: 6243330

DOCUMENT-IDENTIFIER: US 6243330 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Medium, apparatus, and method related to encryption resultant information

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Mitsuaki	Kyoto			JP

US-CL-CURRENT: 380/228; 369/47.1, 369/53.11

ABSTRACT:

A disk-shaped recording medium includes a transparent substrate, and an optical recording layer formed on the transparent substrate. A light source emits light. An optical head is operative for applying the light to the optical recording layer from the light source via the transparent substrate, for focusing the light on the optical recording layer, and for reproducing information from the optical recording layer. A position detecting device is operative for detecting at least one of a pit depth and a physical position of information which has a first given relation with a specified address and which is recorded on the recording medium, and for generating first positional information representing at least one of the pit depth

and the physical position. A previously-recorded secret code is reproduced from the recording medium. The secret code represents second positional information. The secret code is decoded into the second positional information. The second positional information represents at least one of a predetermined reference pit depth and a predetermined reference physical position. The first positional information and the second positional information are collated, and a check is made as to whether or not the first positional information and the second positional information are in a second given relation. When the first positional information and the second positional information are not in the second given relation, one of outputting of a reproduced signal of the recording medium, operation of a program stored in the recording medium, and decoding of the secret code is stopped.

7 Claims, 520 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 281

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 21. Document ID: US 6219047 B1

L10: Entry 21 of 57

File: USPT

Apr 17, 2001

US-PAT-NO: 6219047

DOCUMENT-IDENTIFIER: US 6219047 B1

TITLE: Training agent

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bell; John	Encinitas	CA	92024	

US-CL-CURRENT: 715/705

ABSTRACT:

The present invention features methods and apparatus for providing tutorial information for a computer program application through a training agent activated by a user of the application. The agent takes control of the application interface and performs actions, such as finding and displaying tutorial information, in response to application user interface commands. The relation between the user interface commands and the actions is stored in a database used by the agent.

17 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 22. Document ID: US 6072982 A

US-PAT-NO: 6072982

DOCUMENT-IDENTIFIER: US 6072982 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Interactive audiovisual distribution system

DATE-ISSUED: June 6, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haddad; Joseph C.	Elizabethtown	PA	17022	

US-CL-CURRENT: 725/93; 725/116, 725/134

## ABSTRACT:

A distribution center according to the present invention is capable of handling requests from a plurality of subscribers for accessing programs in a central audiovisual library. The subscriber requests may specify a variable time allowance interval within which a requested program may be delivered.

11 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 23. Document ID: US 6061656 A

L10: Entry 23 of 57

File: USPT

May 9, 2000

US-PAT-NO: 6061656

DOCUMENT-IDENTIFIER: US 6061656 A

TITLE: Computer-based trading card system and method

DATE-ISSUED: May 9, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pace; Michael	Bretwood	CA	90049	

US-CL-CURRENT: 705/1; 380/277, 463/1, 463/2, 463/29, 463/43, 705/51, 713/200

## ABSTRACT:

A collection system using a computer or smart device system wherein the collection items (or more specifically their unlocking keys) are contained in various floppy disks and/or an optical storage drive and/or are obtainable through a network connection. With the collection items in the computer or smart device system, the

icons of the collection items appear on the computer monitor or other display. By (double) clicking on or otherwise selecting the icon, the unlocking key unlocks the corresponding collection item in the program into the hard drive and at the same time the unlocking key is rendered inoperative. A generally reverse process can be used to lock the collection item relative to the hard drive and render the unlocking key operative. The user collects the collection items by unlocking, for example using a number of floppy disks, the locks in his/her program, which contains the corresponding locks for all of the collection items in the set. When the entire set or a predetermined subset thereof has been collected, the program allows the user to play an interactive game related to the collection items. The user can also enjoy a video and/or audio presentation contained in the disk and/or the program and/or off the Internet associated with each of the keys (and thereby the corresponding collection items), the collection items themselves or the game by appropriate selection. That is, instead of the prior art system of trading paper cards or the like, the user herein trades the digital files, the floppy disks or the portable optical storage discs to collect the collection items and games, and advantageously can enjoy audio/visual presentations and interactive computer games also associated with the collected items.

34 Claims, 9 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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## ☐ 24. Document ID: US 6003130 A

L10: Entry 24 of 57

File: USPT

Dec 14, 1999

US-PAT-NO: 6003130

DOCUMENT-IDENTIFIER: US 6003130 A

TITLE: Apparatus for selecting, detecting and/or reprogramming system bios in a computer system

DATE-ISSUED: December 14, 1999

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Eric D.	North Hudson	WI		

US-CL-CURRENT: 713/2

### ABSTRACT:

A computer system having a motherboard that is adapted to receive a daughterboard containing a CPU coupled to a PCI bus and a memory device through a system controller. The PCI bus is, in turn, coupled to a storage device, such as a programmable array logic device, containing CPU data identifying the type of CPU or other hardware installed on the daughterboard. The motherboard includes a memory device storing a BIOS program as well as a startup program. The startup program is executed by the CPU at power up or reset to cause the CPU to compare the CPU data identifying the CPU to BIOS data identifying the CPU adapted to execute the BIOS program. In the event that the CPU data and the BIOS data match, the CPU executes

the BIOS program in a normal manner. In the event the CPU data does not match the BIOS data, the CPU executes a crisis recovery routine which may involve writing the proper BIOS program from a floppy disk to a programmable memory device containing the BIOS program on the motherboard. The CPU can then execute the proper BIOS program from the programmable memory.

43 Claims, 4 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Drawings	Drawings
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☐ 25. Document ID: US 5995987 A

L10: Entry 25 of 57

File: USPT

Nov 30, 1999

US-PAT-NO: 5995987  
DOCUMENT-IDENTIFIER: US 5995987 A

TITLE: Programming method and programming unit for programmable controller in which only common names for application instructions need be designated by the programmer

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iida; Naomi	Aichi			JP
Onishi; Sakuyuki	Aichi			JP

US-CL-CURRENT: 708/130; 700/18, 700/86, 700/87, 700/89

ABSTRACT:

A programming system for a programmable controller is improved by providing for automatic retrieval of the execution programs corresponding to application instructions which do not form a part of the basic program instruction set. Application instructions embedded within a sequence program are recognized and their common operation names are displayed on the operator's display. The corresponding execution instructions are retrieved and subsequently combined with the sequence program while the operator monitors the retrieval operation on the display. After the execution instructions have all been copied over into the memory for the sequence program, the application instructions may optionally be rewritten as standard subroutine instructions including the head address of the given set of execution instructions, to avoid the need for a symbol table to interpret between application instruction names and the corresponding head address for the execution instructions.

1 Claims, 16 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Drawings	Drawings
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☐ 26. Document ID: US 5959948 A

L10: Entry 26 of 57

File: USPT

Sep 28, 1999

US-PAT-NO: 5959948

DOCUMENT-IDENTIFIER: US 5959948 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Recording and reproducing apparatus

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Mitsuaki	Kyoto			JP

US-CL-CURRENT: 380/228

ABSTRACT:

A disk-shaped recording medium includes a transparent substrate, and an optical recording layer formed on the transparent substrate. A light source emits light. An optical head is operative for applying the light to the optical recording layer from the light source via the transparent substrate, for focusing the light on the optical recording layer, and for reproducing information from the optical recording layer. A position detecting device is operative for detecting at least one of a pit depth and a physical position of information which has a first given relation with a specified address and which is recorded on the recording medium, and for generating first positional information representing at least one of the pit depth and the physical position. A previously-recorded secret code is reproduced from the recording medium. The secret code represents second positional information. The secret code is decoded into the second positional information. The second positional information represents at least one of a predetermined reference pit depth and a predetermined reference physical position. The first positional information and the second positional information are collated, and a check is made as to whether or not the first positional information and the second positional information are in a second given relation. When the first positional information and the second positional information are not in the second given relation, one of outputting of a reproduced signal of the recording medium, operation of a program stored in the recording medium, and decoding of the secret code is stopped.

4 Claims, 444 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 281

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Draw. C.
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☐ 27. Document ID: US 5943304 A

L10: Entry 27 of 57

File: USPT

Aug 24, 1999

US-PAT-NO: 5943304



DOCUMENT-IDENTIFIER: US 5943304 A

TITLE: Method of reproducing multimedia data and multimedia data server system.

DATE-ISSUED: August 24, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kamada; Takashi	Settushi			JP
Yamaguchi; Masashi	Oosakashi			JP
Miyazaki; Masaya	Ikedashi			JP

US-CL-CURRENT: 711/111

ABSTRACT:

In a method for reproducing multimedia data recorded over plural optical disks using an optical disk library unit having at least one optical disk drive, during reading and reproduction of the multimedia data recorded in one of the optical disks, multimedia data from the optical disk is prefetched by an amount larger than the amount equivalent to the time required for exchange of the optical disks. The prefetched data is temporarily stored, and when the optical disk is exchanged for the next optical disk, the temporarily stored data is read and reproduced.

8 Claims, 48 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 31

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 28. Document ID: US 5912866 A

L10: Entry 28 of 57

File: USPT

Jun 15, 1999

US-PAT-NO: 5912866

DOCUMENT-IDENTIFIER: US 5912866 A

TITLE: Method of reproducing multimedia data and multimedia data server system

DATE-ISSUED: June 15, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kamada; Takashi	Settushi			JP
Yamaguchi; Masashi	Oosakashi			JP
Miyazaki; Masaya	Ikedashi			JP

US-CL-CURRENT: 711/111

ABSTRACT:

In a method for reproducing multimedia data recorded over plural optical disks, using an optical disk library unit having at least two, first and second, optical disk drives, multimedia data recorded in one of the optical disks is read and reproduced in the first optical disk drive and, during the reading and reproduction, the next optical disk is mounted in the second optical disk drive. Reading and reproduction of multimedia data recorded in the next optical disk mounted in the second optical disk drive are started immediately after the reading of the multimedia data recorded in the optical disk in the first optical disk drive is completed. Therefore, it is possible to continuously reproduce the multimedia data without interruption due to exchange of the optical disks.

7 Claims, 48 Drawing figures  
 Exemplary Claim Number: 1  
 Number of Drawing Sheets: 31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Figure
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☐ 29. Document ID: US 5870464 A

L10: Entry 29 of 57

File: USPT

Feb 9, 1999

US-PAT-NO: 5870464

DOCUMENT-IDENTIFIER: US 5870464 A

TITLE: Intelligent information routing system and method

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brewster; James A.	Plano	TX		
Subramanian; Srikanth	Plano	TX		
Hite; Thomas D.	Allen	TX		
Lee; Gene W.	Plano	TX		
Brannick; Gary L.	Plano	TX		

US-CL-CURRENT: 379/219; 379/229, 379/266.07, 719/317

ABSTRACT:

An intelligent information router system comprising a telephony controller coupled to a private branch exchange through a link interface. The telephony controller may communicate with a handle manager and a script interpreter engine. The telephony controller may receive information from the link interface regarding telephone calls being placed to the private branch exchange. The telephony controller may initiate actions with the script interpreter engine that access information stored in a database through a database controller. In response to action of the script interpreter engine, the telephony controller may instruct the private branch exchange to route the call to an appropriate location within a company depending on the information received by the private branch exchange through automatic transmission of data or interaction with the calling party.

42 Claims, 26 Drawing figures

Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Draw	Draw
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☐ 30. Document ID: US 5838969 A

L10: Entry 30 of 57

File: USPT

Nov 17, 1998

US-PAT-NO: 5838969  
DOCUMENT-IDENTIFIER: US 5838969 A

TITLE: System and method for collecting and dispatching selected events in a computer application program

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacklin; Kelly	San Francisco	CA		
Clifford; Daniel	Palo Alto	CA		

US-CL-CURRENT: 719/318; 718/100, 718/102

ABSTRACT:

A system and method for collecting and dispatching selected events in an application program comprises an application routine which registers selected events of interest to form a series of handler tables, an event manager which evaluates each new event as it occurs to determine whether any new events are registered in the series of handler tables, and a series of event handlers for responsively handling new events which are registered in the series of handler tables.

20 Claims, 7 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Draw	Draw
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☐ 31. Document ID: US 5835843 A

L10: Entry 31 of 57

File: USPT

Nov 10, 1998

US-PAT-NO: 5835843  
DOCUMENT-IDENTIFIER: US 5835843 A

TITLE: Interactive audiovisual distribution system

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haddad; Joseph C.	Elizabethtown	PA		

US-CL-CURRENT: 725/115; 725/116, 725/131, 725/92, 725/93

## ABSTRACT:

A distribution center according to the present invention is capable of handling requests from a plurality of subscribers for accessing programs in a central audiovisual library. The subscriber requests may specify a variable time allowance interval within which a requested program may be delivered.

32 Claims, 16 Drawing figures  
 Exemplary Claim Number: 1  
 Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 32. Document ID: US 5805538 A

L10: Entry 32 of 57

File: USPT

Sep 8, 1998

US-PAT-NO: 5805538

DOCUMENT-IDENTIFIER: US 5805538 A

TITLE: Method for reproducing multiple optical recording medium without interruption

DATE-ISSUED: September 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kamada; Takashi	Settushi			JP
Yamaguchi; Masashi	Oosakashi			JP
Miyazaki; Masaya	Ikedashi			JP

US-CL-CURRENT: 711/111

## ABSTRACT:

A method for reproducing multimedia data in response to plural requests for reproduction using an optical disk library unit having at least one optical disk drive. When a new request for reproduction of multimedia data is given to the optical disk library unit during reproduction of multimedia data recorded over plural optical disks, the new request for reproduction is refused if an optical disk having the multimedia data requested by the new request is the same of one of the plural optical disks having the multimedia data being reproduced.

4 Claims, 48 Drawing figures  
 Exemplary Claim Number: 1  
 Number of Drawing Sheets: 31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 33. Document ID: US 5794214 A

L10: Entry 33 of 57

File: USPT

Aug 11, 1998

US-PAT-NO: 5794214

DOCUMENT-IDENTIFIER: US 5794214 A

TITLE: Point-of-sale terminal

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ebina; Kouichi	Suwa			JP
Ito; Ikuo	Suwa			JP
Kasai; Kazuaki	Suwa			JP

US-CL-CURRENT: 705/24; 235/7R, 400/693, 705/16, 710/1

ABSTRACT:

A point-of-sale (POS) terminal is provided with a control device for sending control and/or print data to a printing apparatus. The control device includes a general purpose processor controlled by a general purpose operating system and a control device connector for connecting the control device to the printing apparatus. The printing apparatus comprises a first connector connecting the printing apparatus to the control device through the control device connector. A second connector connects the printing apparatus to an external device. A processor for processes first data input from the first connector and second data input from the second connector. The first connector is in communication with the second connector. The POS terminal also comprises a housing including a first body frame for accommodating the printing apparatus and a second body frame for accommodating the control device, the first body frame being detachably mounted on the second body frame.

7 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 34. Document ID: US 5740907 A

L10: Entry 34 of 57

File: USPT

Apr 21, 1998

US-PAT-NO: 5740907

DOCUMENT-IDENTIFIER: US 5740907 A

TITLE: Disk holder

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McCloy; Robyn S.	Murray	UT	84107	

US-CL-CURRENT: 206/307; 206/445, 206/480

ABSTRACT:

A disk holder for holding compact disks, CD-ROM disks, digital video disks, video game disks, and the like is disclosed. The disk holder comprises a base having two walls disposed thereon, the walls spaced apart by a distance sufficient to receive the disk therebetween. The walls contain grooves formed therein for receiving the edges of the disk. One of the walls comprises a series of flexible, finger-like members, each finger bearing a groove such that the finger biases the disk against the opposing wall.

10 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Page	Page
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☐ 35. Document ID: US 5711672 A

L10: Entry 35 of 57

File: USPT

Jan 27, 1998

US-PAT-NO: 5711672

DOCUMENT-IDENTIFIER: US 5711672 A

TITLE: Method for automatically starting execution and ending execution of a process in a host device based on insertion and removal of a storage media into the host device

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Redford; Peter M.	Los Gatos	CA		
Stern; Donald S.	San Jose	CA		

US-CL-CURRENT: 434/307R; 434/118, 434/365, 700/1

ABSTRACT:

One embodiment of an autostart driver in the host device detects insertion of a storage media into a peripheral, searches for a file of a predetermined name in the storage media and automatically starts an application listed in instructions in the file. Another embodiment of the autostart driver looks for a file of the

predetermined name in the host devices' permanently installed storage media prior to searching in the inserted storage media. When a previously inserted removable storage media is removed from the peripheral, the autostart driver ends the started application, restores the operator interface screens to a state existing prior to insertion and releases portions of random access memory that were used by the ended application. In one embodiment the autostart driver can automatically copy a new version of autostart driver software or other new software, such as word processors into the permanently installed storage media.

34 Claims, 13 Drawing figures  
Exemplary Claim Number: 1,20,28  
Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 36. Document ID: US 5699331 A

L10: Entry 36 of 57

File: USPT

Dec 16, 1997

US-PAT-NO: 5699331  
DOCUMENT-IDENTIFIER: US 5699331 A

TITLE: Apparatus operating with recording medium according to positional information of a secret code

DATE-ISSUED: December 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Mitsuaki	Kyoto			JP

US-CL-CURRENT: 369/47.11; 369/53.21

ABSTRACT:

A disk-shaped recording medium includes a transparent substrate, and an optical recording layer formed on the transparent substrate. A light source emits light. An optical head is operative for applying the light to the optical recording layer from the light source via the transparent substrate, for focusing the light on the optical recording layer, and for reproducing information from the optical recording layer. A position detecting device is operative for detecting at least one of a pit depth and a physical position of information which has a first given relation with a specified address and which is recorded on the recording medium, and for generating first positional information representing at least one of the pit depth and the physical position. A previously-recorded secret code is reproduced from the recording medium. The secret code represents second positional information. The secret code is decoded into the second positional information. The second positional information represents at least one of a predetermined reference pit depth and a predetermined reference physical position. The first positional information and the second positional information are collated, and a check is made as to whether or not the first positional information and the second positional information are in a second given relation. When the first positional information and the second positional information are not in the second given relation, one of outputting of a reproduced signal of the recording medium, operation of a program

stored in the recording medium, and decoding of the secret code is stopped.

2 Claims, 443 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 281

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 37. Document ID: US 5689561 A

L10: Entry 37 of 57

File: USPT

Nov 18, 1997

US-PAT-NO: 5689561

DOCUMENT-IDENTIFIER: US 5689561 A

TITLE: Computer-based trading card system and method

DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pace; Michael	Brentwood	CA	90049	

US-CL-CURRENT: 705/55; 380/277, 463/2, 463/29, 713/200

ABSTRACT:

A collection system using a CD ROM computer system wherein the collection items (or more specifically their unlocking keys) are contained in various floppy disks. With the disks inserted into the computer system, the icons of the collection items on the disks appear on the computer monitor. By (double) clicking on the icon, the unlocking key unlocks the corresponding collection item in the CD ROM program into the hard drive and at the same time the unlocking key is rendered inoperative. A generally reverse process can be used to lock the collection item relative to the hard drive and render the unlocking key operative. The user collects the collection items by unlocking, using a number of floppy disks, the locks in his CD ROM program, which contains the corresponding locks for all of the collection items in the set. When the entire set or a predetermined subset thereof has been collected, the CD ROM program allows the user to play an interactive game related to the collection items. The user can also enjoy a video and/or audio presentation contained in the disk and/or the CD ROM program associated with each of the keys (and thereby the corresponding collection items) by (single) clicking on the appropriate icons. That is, instead of the prior art system of trading paper cards or the like, the user herein trades floppy disks to collect the collection items, and can enjoy audio/visual presentations and interactive computer games also associated with the collected items.

29 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 38. Document ID: US 5658228 A

L10: Entry 38 of 57

File: USPT

Aug 19, 1997

US-PAT-NO: 5658228

DOCUMENT-IDENTIFIER: US 5658228 A

TITLE: Tamper evident container and related apparatus

DATE-ISSUED: August 19, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van de Geijn; Peter T.	Westminster	MD		
Bealer; Kenneth H.	York	PA		
Earnest; Edward M.	Owings Mills	MD		
Kuykendall, Sr.; Kenneth H.	Westminster	MD		
Maccherone; Larry S.	Severna Park	MD		

US-CL-CURRENT: 493/109; 220/269, 220/270, 493/104, 493/158, 493/459, 493/930

ABSTRACT:

A tamper evident container assembly includes a container body having a bottom wall and peripheral side wall, the side wall terminating in an outwardly curled rim. A reusable lid includes a top wall portion and a depending skirt portion, the depending skirt portion constructed of spiral wound stock and having a free end, a major peripheral portion of the free end tucked under the upper rim and upwardly into engagement with the side wall, with a minor peripheral portion of the free end left untucked to thereby provide a gripping area to facilitate tearing and removal of the tear strip. The depending skirt portion is further provided in a lower portion thereof with a line of weakening extending annularly about the skirt portion to thereby define an annular removable tear strip inclusive of the free end, with the line of weakening lying on the rim, between upper and lower edges of the rim. Apparatus for forming the assembly includes a device for pressing a lower portion of the depending skirt portion of the lid under and into engagement with the rim of the container to form a curl about a major peripheral portion of the lid while leaving a minor peripheral portion uncurled while simultaneously forming a vertical slit in the lower portion of the depending skirt portion at an interface between the curled and uncurled portions to thereby simultaneously form a grip tab. Another device is provided for orienting the container to a predetermined rotational position prior to securing the lid. A related method of securing the lid to the container is also disclosed.

10 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examiner	Claims	Comments	Drawings
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☐ 39. Document ID: US 5653382 A

US-PAT-NO: 5653382

DOCUMENT-IDENTIFIER: US 5653382 A

TITLE: Tamper evident container and related apparatus

DATE-ISSUED: August 5, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van de Geijn; Peter T.	Westminster	MD		
Bealer; Kenneth H.	York	PA		
Earnest; Edward M.	Owings Mills	MD		
Kuykendall, Sr.; Kenneth H.	Westminster	MD		
Maccherone; Larry S.	Severna Park	MD		

US-CL-CURRENT: 229/5.5; 229/123.2, 229/125.13, 229/5.6

## ABSTRACT:

A tamper evident container assembly includes a container body having a bottom wall and peripheral side wall, the side wall terminating in an outwardly curled rim. A reusable lid includes a top wall portion and a depending skirt portion, the depending skirt portion constructed of spiral wound stock and having a free end, a major peripheral portion of the free end tucked under the upper rim and upwardly into engagement with the side wall, with a minor peripheral portion of the free end left untucked to thereby provide a gripping area to facilitate tearing and removal of the tear strip. The depending skirt portion is further provided in a lower portion thereof with a line of weakening extending annularly about the skirt portion to thereby define an annular removable tear strip inclusive of the free end, with the line of weakening lying on the rim, between upper and lower edges of the rim. Apparatus for forming the assembly includes a device for pressing a lower portion of the depending skirt portion of the lid under and into engagement with the rim of the container to form a curl about a major peripheral portion of the lid while leaving a minor peripheral portion uncurled while simultaneously forming a vertical slit in the lower portion of the depending skirt portion at an interface between the curled and uncurled portions to thereby simultaneously form a grip tab. Another device is provided for orienting the container to a predetermined rotational position prior to securing the lid. A related method of securing the lid to the container is also disclosed.

9 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 40. Document ID: US 5594920 A

US-PAT-NO: 5594920

DOCUMENT-IDENTIFIER: US 5594920 A

TITLE: Point-of-sale terminal and printing apparatus therefor

DATE-ISSUED: January 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ebina; Kouichi	Suwa			JP
Ito; Ikuo	Suwa			JP
Kasai; Kazuaki	Suwa			JP

US-CL-CURRENT: 705/24; 235/7R, 710/1

ABSTRACT:

A point-of-sale (POS) terminal is provided with a control device for sending control and/or print data to a printing apparatus. The control device includes a general purpose processor controlled by a general purpose operating system and a control device connector for connecting the control device to the printing apparatus. The printing apparatus comprises a first connector connecting the printing apparatus to the control device through the control device connector. A second connector connects the printing apparatus to an external device. A processor for processes first data input from the first connector and second data input from the second connector. The first connector is in communication with the second connector. The POS terminal also comprises a housing including a first body frame for accommodating the printing apparatus and a second body frame for accommodating the control device, the first body frame being detachably mounted on the second body frame.

17 Claims, 14 Drawing figures

Exemplary Claim Number: 5

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 41. Document ID: US 5574843 A

L10: Entry 41. of 57

File: USPT

Nov 12, 1996

US-PAT-NO: 5574843

DOCUMENT-IDENTIFIER: US 5574843 A

TITLE: Methods and apparatus providing for a presentation system for multimedia applications

DATE-ISSUED: November 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerlach, Jr.; John D.	Falls Church	VA		

US-CL-CURRENT: 345/418; 715/835

ABSTRACT:

A data processing system has a central processing unit, a memory for storing a plurality of data structures corresponding to a presentation, and a display device. The display device has a display screen including a presentation area for displaying a presentation. Each one of the data structures includes an action identifier and a plurality of attributes. The process provides for receiving a one of the plurality of data structures of the presentation, analyzing the received data structure to determine an action to be performed in response to the action identifier of the data structure, and performing the action corresponding to the action identifier in accordance with a plurality of the attributes of the received data structure.

8 Claims, 59 Drawing figures  
Exemplary Claim Number: 5  
Number of Drawing Sheets: 48

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Draw. Co.
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☐ 42. Document ID: US 5555441 A

L10: Entry 42 of 57

File: USPT

Sep 10, 1996

US-PAT-NO: 5555441

DOCUMENT-IDENTIFIER: US 5555441 A

TITLE: Interactive audiovisual distribution system

DATE-ISSUED: September 10, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haddad; Joseph C.	Elizabethtown	PA		

US-CL-CURRENT: 725/93; 725/100, 725/116, 725/131, 725/134

ABSTRACT:

A distribution center according to the present invention is capable of handling requests from a plurality of subscribers for accessing programs in a central audiovisual library. The subscriber requests may specify a variable time allowance interval within which a requested program may be delivered.

31 Claims, 16 Drawing figures  
Exemplary Claim Number: 16  
Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Draw. Co.
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☐ 43. Document ID: US 5548784 A

L10: Entry 43 of 57

File: USPT

Aug 20, 1996

US-PAT-NO: 5548784

DOCUMENT-IDENTIFIER: US 5548784 A

TITLE: Automatic disk change detection without causing head movement by step pulses

DATE-ISSUED: August 20, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Easley, Jr.; Ellis	Ft. Worth	TX		
Gray; Patricia	Hurst	TX		
Suwandhaputra; Johannes	Ft. Worth	TX		
Wolf; Julie	Crowley	TX		

US-CL-CURRENT: 710/18; 369/53.41, 369/53.42, 710/15, 710/16, 710/17, 710/19

ABSTRACT:

A method and apparatus for detecting diskette change is provided. A step pulse signal generated using the CPU is sent to the step pulse line of the disk drive, in addition to the normal step pulse signal which can be issued from the floppy disk controller. Thus, a step pulse can be issued directly by the CPU without using the FDC. By positioning the head in the outmost cylinder and issuing a step pulse, at a time when the direction signal indicates outward direction, the door-open status signal can be updated, without causing movement of the head. By preventing head movement in response to a step pulse, door-open status information is updated without undesirable effects of excessive head movement, drive spinning, head movement noise, constant illumination of the drive light or unnecessarily occupying the CPU or other components.

10 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 44. Document ID: US 5526328 A

L10: Entry 44 of 57

File: USPT

Jun 11, 1996

US-PAT-NO: 5526328

DOCUMENT-IDENTIFIER: US 5526328 A

TITLE: Recording and reproducing apparatus with varying amounts of data in different tracks

DATE-ISSUED: June 11, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Mitsuaki	Kyoto			JP
Shimizu; Ryosuke	Osaka			JP
Koudo; Toshikazu	Osaka			JP
Yoshiura; Tsukasa	Osaka			JP
Matsuura; Takumi	Kyoto			JP
Tanaka; Michiro	Nara-ken			JP
Tan; Satoshi	Osaka			JP

US-CL-CURRENT: 369/13.02

ABSTRACT:

A disk-shaped recording medium includes a transparent substrate, and an optical recording layer and a magnetic recording layer formed at one side of the transparent substrate. An optical head applies light to the optical recording layer from a light source via the transparent substrate, and focuses the light on the optical recording layer and reproduces information from the optical recording layer. A magnetic head records information on the magnetic recording layer or reproduces information from the magnetic recording layer. An optical head moving device serves to move the optical head by a movement amount so as to focus the light on an optical track on the optical recording layer which has specified address information. A magnetic head moving device serves to move the magnetic head to a specified magnetic track on the magnetic recording layer by referring to the movement amount of the optical head.

7 Claims, 407 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 258

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 45. Document ID: US 5495522 A

L10: Entry 45 of 57

File: USPT

Feb 27, 1996

US-PAT-NO: 5495522

DOCUMENT-IDENTIFIER: US 5495522 A

TITLE: Method and apparatus for audio teleconferencing a plurality of phone channels

DATE-ISSUED: February 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Bruce S.	East Kingston	NH		
Garrison; Marshall B.	Derry	NH		
Brodsky; Philip S.	Methuen	MA		
LeBlanc; Richard	Plaistow	NH		
Baun, Jr.; Philip J.	Andover	MA		

McCarthy; Gary R. Manachester NH  
Leondires; Arthur P. Mont Vernon NH

US-CL-CURRENT: 379/202.01; 370/261

ABSTRACT:

An improved system for connecting and processing a plurality of phone user in a teleconference on a common digital bus. The apparatus includes a plurality of digital processing units (DSPs) associated with selective phone lines and in communication with each other. Each DSP determines an activity status for each associated phone line and transmits that status to the other DSPs, The DSPs create and update respective identical "talk-lists" which reflect the active conferees whose voice data is currently being output on the phone channels. The system thus provides scaleable teleconferencing in a real-time configuration without switching between the various signals on the common bus such that each incoming caller or even a plurality of conferences has equal priority.

12 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw
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☐ 46. Document ID: US 5490827 A

L10: Entry 46 of 57

File: USPT

Feb 13, 1996

US-PAT-NO: 5490827

DOCUMENT-IDENTIFIER: US 5490827 A

TITLE: Tamper evident container and related apparatus

DATE-ISSUED: February 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van de Geijn; Peter T.	Westminster	MD		
Bealer; Kenneth H.	York	PA		
Earnest; Edward M.	Owings Mills	MD		
Kuykendall, Sr.; Kenneth H.	Westminster	MD		
Maccherone; Larry S.	Severna Park	MD		

US-CL-CURRENT: 493/109; 493/104, 493/158, 493/459, 493/930

ABSTRACT:

A tamper evident container assembly includes a container body having a bottom wall and peripheral side wall, the side wall terminating in an outwardly curled rim. A reusable lid includes a top wall portion and a depending skirt portion, the depending skirt portion constructed of spiral wound stock and having a free end, a major peripheral portion of the free-end rocked under the upper rim and upwardly

into engagement with the side wall, with a minor peripheral portion of the free end left untucked to thereby provide a gripping area to facilitate tearing and removal of the tear strip. The depending skirt portion is further provided in a lower portion thereof with a line of weakening extending annularly about the skirt portion to thereby define an annular removable tear strip inclusive of the free end, with the line of weakening lying on the rim, between upper and lower edges of the rim. Apparatus for forming the assembly includes a device for pressing a lower portion of the depending skirt portion of the lid under and into engagement with the rim of the container to form a curl about a major peripheral portion of the lid while leaving a minor peripheral portion uncurled while simultaneously forming a vertical slit in the lower portion of the depending skirt portion at an interface between the curled and uncurled portions to thereby simultaneously form a grip tab. Another device is provided for orienting the container to a predetermined rotational position prior to securing the lid. A related method of securing the lid to the container is also disclosed.

12 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Name	Drawn
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☐ 47. Document ID: US 5473584 A

L10: Entry 47 of 57

File: USPT

Dec 5, 1995

US-PAT-NO: 5473584

DOCUMENT-IDENTIFIER: US 5473584 A

TITLE: Recording and reproducing apparatus

DATE-ISSUED: December 5, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Mitsuaki	Kyoto			JP

US-CL-CURRENT: 369/47.11; 369/53.21

ABSTRACT:

A disk-shaped recording medium includes a transparent substrate, and an optical recording layer formed on the transparent substrate. A light source emits light. An optical head is operative for applying the light to the optical recording layer from the light source via the transparent substrate, for focusing the light on the optical recording layer, and for reproducing information from the optical recording layer. A position detecting device is operative for detecting at least one of a pit depth and a physical position of information which has a first given relation with a specified address and which is recorded on the recording medium, and for generating first positional information representing at least one of the pit depth and the physical position. A previously-recorded secret code is reproduced from the recording medium. The secret code represents second positional information. The secret code is decoded into the second positional information. The second positional information represents at least one of a predetermined reference pit



depth and a predetermined reference physical position. The first positional information and the second positional information are collated, and a check is made as to whether or not the first positional information and the second positional information are in a second given relation. When the first positional information and the second positional information are not in the second given relation, one of outputting of a reproduced signal of the recording medium, operation of a program stored in the recording medium, and decoding of the secret code is stopped.

2 Claims, 520 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 281

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 48. Document ID: US 5455926 A

L10: Entry 48 of 57

File: USPT

Oct 3, 1995

US-PAT-NO: 5455926  
DOCUMENT-IDENTIFIER: US 5455926 A

TITLE: Virtual addressing of optical storage media as magnetic tape equivalents

DATE-ISSUED: October 3, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keele; Richard V.	San Diego	CA		
Mautner; Craig D.	San Diego	CA		
Thorpe; Tracy J.	Encinitas	CA		
Thompson; Sidney R.	San Diego	CA		
Goodsell; Michael C.	Chula Vista	CA		
Erdelsky; Philip J.	San Diego	CA		

US-CL-CURRENT: 711/4; 711/112, 711/202

ABSTRACT:

An optical disk storage system emulates a magnetic tape subsystem by virtual addressing of data recorded on write once optical disk media having a predetermined group of available sectors for rewriting a disk ID, a predetermined plurality of bands of available sectors for rewriting a virtual tape directory to virtual tape VSNs, and, available sectors for rewriting virtual tape maps and rewriting user records, the tape maps have data portions for simulating tape marks and interblock gap and for addressing blocks of data within the virtual tapes, the virtual tape directory has pointers for pointing to tape maps, and the system rewrites the tape directory, tape maps and user records so as to function as a rewritable magnetic tape.

41 Claims, 15 Drawing figures  
Exemplary Claim Number: 4  
Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☐ 49. Document ID: US 5438674 A

L10: Entry 49 of 57

File: USPT

Aug 1, 1995

US-PAT-NO: 5438674

DOCUMENT-IDENTIFIER: US 5438674 A

TITLE: Optical disk system emulating magnetic tape units

DATE-ISSUED: August 1, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keele; Richard V.	San Diego	CA		
Mautner; Craig D.	San Diego	CA		
Thorpe; Tracy J.	Encinitas	CA		
Thompson; Sidney R.	San Diego	CA		
Goodsell; Michael C.	Chula Vista	CA		

US-CL-CURRENT: 711/4; 703/23, 707/204, 707/205, 711/112, 711/202, 711/221

ABSTRACT:

An optical disk system emulating a 3480 magnetic tape subsystem having one or more magnetic tape drives, includes a VMEGate channel attached processor for receiving CCW tape commands, a SCSI board for controlling SCSI optical disk drives, a serial I/O board for controlling jukebox optical disk media handlers for automatically robotically loading and unloading optical disks containing virtual tape data into the optical disk drives, a cache RAM for buffering data between the channel and the optical disk drives, operator consoles for emulating the 3480 magnetic tape subsystem control panels, an SBC computer and VME bus for central control of the system, and floppy and hard disk drives for storing emulation SBC programs and disk directories, to enable the system to exhibit an organization of virtual tape data into a system of pointers and user records of the virtual tapes, a reallocatable mapping between magnetic tape drives and the optical disk drives, disk directories cross referencing virtual tapes VSNs to optical disks for locating particular optical disks storing requested VSNs, and to enable WORM optical media to appear to the channel as rewritable magnetic tape through the conversion of tape commands to jukebox load operations and optical disk drive seek operations for increased performance, said system emulates a 3480 magnetic tape subsystem by using jukeboxes to automatically load optical media into and out of optical disk drives and by using a dynamic re-allocation method for maintaining a one-to-one mapping between the virtual magnetic tape drives and the optical disk drives, which reduces access speed to the data.

27 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☐ 50. Document ID: US 5418628 A

L10: Entry 50 of 57

File: USPT

May 23, 1995

US-PAT-NO: 5418628

DOCUMENT-IDENTIFIER: US 5418628 A

TITLE: Integrated data communication system

DATE-ISSUED: May 23, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perkins; John L.	St. Kilda, Victoria	3182		AU

US-CL-CURRENT: 358/468; 358/401, 358/442

ABSTRACT:

An integrated communication system for the transception of facsimile data or binary file data is described. The system comprises a conventional facsimile machine having the components of a scanner, sampling device, transmission memory, compression device and modem connected to a telephone line of a public switched telephone network all being for the transmission of facsimile data and decompression device, reception memory, recording memory and recording device all being for the reception of facsimile data. These components are under the control of the operations microprocessor and user interface. The binary file data transfer components are the Tx/Rx memory, floppy disk controller and floppy disk drive, again, all under the control of the operations microprocessor. The binary file transfer is achieved either by control codes inserted in the Non Standard Filed (NSF) of a facsimile transmission conducted under the CCITT Recommendation T.30, or the proposed amendments to the DIS/DTC/DCS signals of the same T.30 Recommendation as are under consideration.

8 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Draw
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L8 and hardware	57

Display Format:

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[Next Page](#)

[Go to Doc#](#)

## Refine Search

### Search Results -

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L8 and hardware	57

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#### Set Name Query

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#### Hit Count Set Name

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<u>L10</u>	L8 and hardware	57	<u>L10</u>
<u>L9</u>	L8 and l7	0	<u>L9</u>
<u>L8</u>	Insert ADJ disk	448	<u>L8</u>
<u>L7</u>	install near hardware	103	<u>L7</u>
<u>L6</u>	externally ADJ referenced ADJ interface	0	<u>L6</u>
<u>L5</u>	externally ADJ reference ADJ interface	0	<u>L5</u>
<u>L4</u>	L1 and (bytecode or (byte ADJ code))	2	<u>L4</u>
<u>L3</u>	L1 AND (detect near interface)	0	<u>L3</u>
<u>L2</u>	L1 detect	368920	<u>L2</u>
<u>L1</u>	referenced ADJ interface	49	<u>L1</u>

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Phone No: 650.233.4661

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C/M No: 069509/0302126

Comments:

Dear Sir/Madam:

Response to Office Action is hereby re-submitted per Examiner Todd Ingberg's request. Please note that the response to Office Action was fax filed on 12/2/04 (please see attached confirmation). Please contact our offices if you have any questions or concerns.

Sincerely,

Cora Balton

Assistant to Jubin Dana

**Confidentiality Note:**

The documents accompanying this facsimile transmission may contain confidential information which is legally privileged. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution or use of any of the information contained in this transmission is strictly PROHIBITED. If you have received this transmission in error, please immediately notify us by telephone and mail the original transmission to us. Thank you.

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Start time : Dec-02 08:46pm  
End time : Dec-02 08:48pm  
Pages sent : 007  
Status : OK  
Job number : 785

Todd - 571-272-3723  
Ingberg

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Robert Boxall

App. Ser. No.: 09/943,547

Group Art Unit: 2124

Filed: August 30, 2001

Examiner: Ingberg, Todd D

Title: Computer Hardware and Software Installation Apparatus and Method

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via Facsimile to 703-072-5598, Group Art Unit 2124, Commissioner for Patents, Alexandria, VA on December 2, 2004.

By \_\_\_\_\_  
Justin Davis

AMENDMENT AND RESPONSE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This is a response to the Office Action mailed June 2, 2004.

Request for Extension

Applicants request a three-month extension of time from September 2, 2004 to the date hereof to submit this response. The Commissioner is authorized to charge Deposit Account 50-2213 (Order No. 068309-0302126; Ref No. Patel 12847) for the requisite three-month large entity extension fee of \$980.00.

Please amend the application as follows:

1 of 5

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Robert Boxall

App. Ser. No.: 09/945,547

Group Art Unit: 2124

Filed: August 30, 2001

Examiner: Ingberg, Todd D

Title: Computer Hardware and Software Installation Apparatus and Method

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via facsimile to 703-872-9306, Group Art Unit 2124, Commissioner for Patents, Alexandria, VA on December 2, 2004.

By

Jubin Datta

AMENDMENT AND RESPONSE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This is a response to the Office Action mailed June 2, 2004.

Request for Extension

Applicants request a three-month extension of time from September 2, 2004 to the date hereof to submit this response. The Commissioner is authorized to charge Deposit Account 50-2213 (Order No. 069509-0302126; Ref No. Pctel 12847) for the requisite three-month large entity extension fee of \$980.00.

Please amend the application as follows:

1 of 5

**IN THE CLAIMS**

1. (Original) A method of installing hardware and corresponding software comprising the steps of:

initiating the installation process for a hardware element having corresponding software;

monitoring the operating system for commands which require user intervention;

analyzing the commands received from the operating system; and

responding to the commands received from the operating system without requiring user intervention.

*executing in a processor* →

2. (Original) The method of claim 1 wherein the hardware comprises a wireless LAN card.

3. (Original) The method of claim 1 wherein the steps of analyzing and responding is repeated each time the operating system requires user intervention.

Please cancel claim 4.

*not running not statutory*

5. (Amended) An installation script for use in association with a computer and an associated hardware element or software element, the script comprising:

✓ means for monitoring a request for user intervention by an operating system;

means for analyzing the request to determine a response thereto; and

means for responding to the request without substantially requiring user intervention.

*Intended use*

6. (Original) The installation script of claim 5 wherein the analyzing means and the responding means are capable of responding to a plurality of different requests.

7. (Original) The installation script of claim 5 wherein the hardware comprises a wireless LAN card.
8. (Original) The installation script of claim 5 wherein the operating system comprises one of the group consisting of: Windows 95, 98, Me, NT, 2000, XP, MacOS, Linux and PalmOS.
9. (Original) The installation script of claim 5 wherein the installation script comprises software stored on a removable media.
10. (Original) The installation script of claim 9 wherein the removable media comprises a CD.
11. (Original) A method of installing hardware comprising;
- connecting the hardware to a computing device;
  - providing a storage media having an installation script;
  - initiating the installation script
  - monitoring the operating system for commands which require user intervention;
  - analyzing the commands received from the operating system;
  - responding to the commands received from the operating system without requiring user intervention; and
  - repeating the steps of analyzing and responding until the hardware is installed.

Statutory  
claim

Please cancel claim 12.

### REMARKS

Upon entry of this Amendment claims 1-3 and 5-11 will be pending, of which claims 1, 5, and 11 are independent.

#### Drawings

The Examiner requested that new drawings be submitted because the drawings as submitted were hand written. In response Applicants have submitted corrected drawings. Thus, Applicants request withdrawal of Examiner's objection to the drawings.

#### Claim Rejections

The Examiner has rejected claims 4, 5, and 12 under 35 USC 112, second paragraph, as being indefinite. In response and to more clearly set forth Applicants' invention claim 5 has been amended and claims 4 and 12 have been cancelled, thereby rendering the Examiner's rejection moot. Thus, Applicants request withdrawal of Examiner's rejection of claim 5.

The Examiner has rejected claims 1-12 under 35 USC 102(b) as being anticipated by HP OpenView bundled with CA UniCenter TNG (herein combined as the "UniCenter"). Applicants respectfully traverse this rejection. The UniCenter reference specifically teaches distribution of the latest version of software to target systems. The automation process for installation of software disclosed or taught by the UniCenter reference is specifically targeted at automation of "the task of analyzing each target machine by performing a series of checks between the target machine and the software that is to be installed . . . to ensure all file systems used during the installation are mounted and available." See *UniCenter* at page 181 first paragraph. The automated analysis occurs prior to installation of the software program. For example, the analysis also includes evaluation of the disk space on the target prior to installation of the software program. Thus, the automation process disclosed in UniCenter reference is specifically focused on assessing the target machine to receive the software prior to initiating the installation process. The UniCenter reference neither teaches nor suggests automation of the installation process including monitoring for commands or requests that require "user intervention" and responding to commands or requests "without requiring user

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4 of 5

intervention" as set forth in independent claims 1, 5, and 11, and thus, the Examiner has failed to establish a prima facie basis for an anticipation rejection. As a result claims 1, 5, and 11 should be allowed. Accordingly, Applicants request withdrawal of Examiner's rejection of independent claims 1, 5, and 11 and full allowance of same.

While claims 2 and 3 also provide independent basis for allowance, claims 2 and 3 depend from and further limit independent claim 1 and hence are also in condition for allowance. Thus, Applicants request withdrawal of Examiner's rejection of claims 2 and 3 and full allowance of same.

While claims 6-10 also provide independent basis for allowance, claims 6-10 depend from and further limit independent claim 5 and hence are also in condition for allowance. Thus, Applicants request withdrawal of Examiner's rejection of claims 6-10 and full allowance of same.

In view of the foregoing and because all rejections have been addressed, it is respectfully submitted that the present application is in condition for allowance and a Notice to that effect is earnestly solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The Commissioner is hereby authorized to charge fees that may be required relative to this application, or credit any overpayment, to our Account 50-2213, Order No. 069509-0302126 (Pctel-12847).

Respectfully submitted,  
PILLSBURY WINTHROP LLP

By: 

Jubin Dana Reg. No. 41,400  
Customer No. 27498

2475 Hanover Street  
Palo Alto, CA 94304-1115  
Tel. No.: (650) 233-4661  
Fax No.: (650) 233-4545

60355142-1

5 of 5

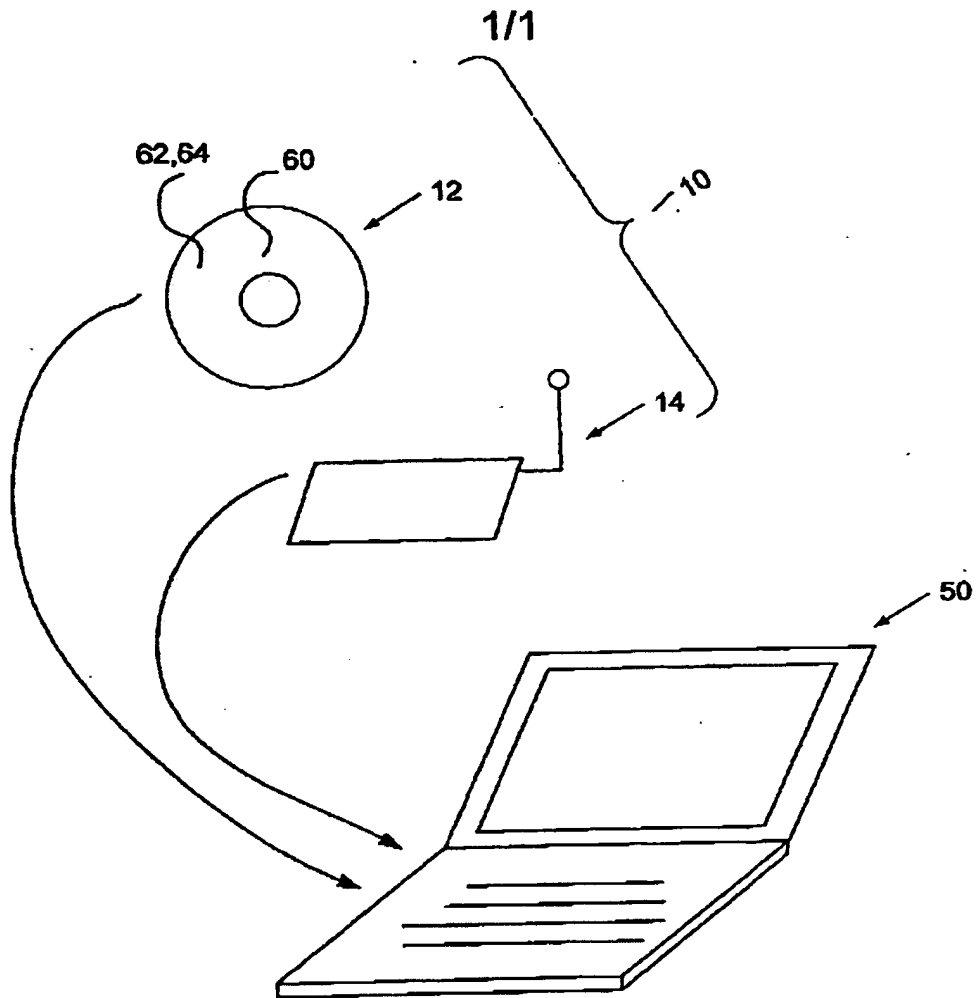


FIG. 1

1/2

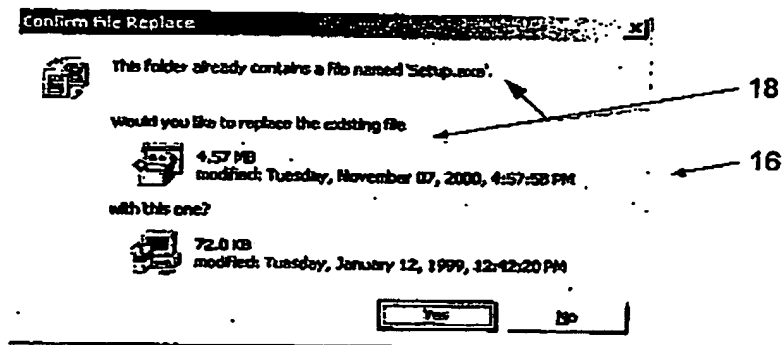


FIG. 2



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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of: **Robert Boxall**

App. Ser. No.: **09/945,547**

Group Art Unit: **2124**

Filed: **August 30, 2001**

Examiner: **Ingberg, Todd D**

Title: **Computer Hardware and Software Installation Apparatus and Method**

**CERTIFICATE OF FACSIMILE TRANSMISSION**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via facsimile to 703-872-9306, Group Art Unit 2124, Commissioner for Patents, Alexandria, VA on December 2, 2004.

By

  
Jubin Dana

**AMENDMENT AND RESPONSE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Please amend the application as follows:

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analyzing the commands received from the operating system; and

responding to the commands received from the operating system without requiring user intervention.

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3. (Original) The method of claim 1 wherein the steps of analyzing and responding is repeated each time the operating system requires user intervention.

Please cancel claim 4.

5. (Amended) An installation script for use in association with a computer and an associated hardware element or software element, the script comprising:

means for monitoring a request for user intervention by an operating system;

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6. (Original) The installation script of claim 5 wherein the analyzing means and the responding means are capable of responding to a plurality of different requests.

60355142-1

2 of 5

7. (Original) The installation script of claim 5 wherein the hardware comprises a wireless LAN card.
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The Commissioner is hereby authorized to charge fees that may be required relative to this application, or credit any overpayment, to our Account 50-2213, Order No. 069509-0302126 (Pctel-12847).

Respectfully submitted,  
PILLSBURY WINTHROP LLP

By: \_\_\_\_\_  
Jubin Dana Reg. No. 41,400  
Customer No. 27498

2475 Hanover Street  
Palo Alto, CA 94304-1115  
Tel. No.: (650) 233-4661  
Fax No.: (650) 233-4545

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5 of 5

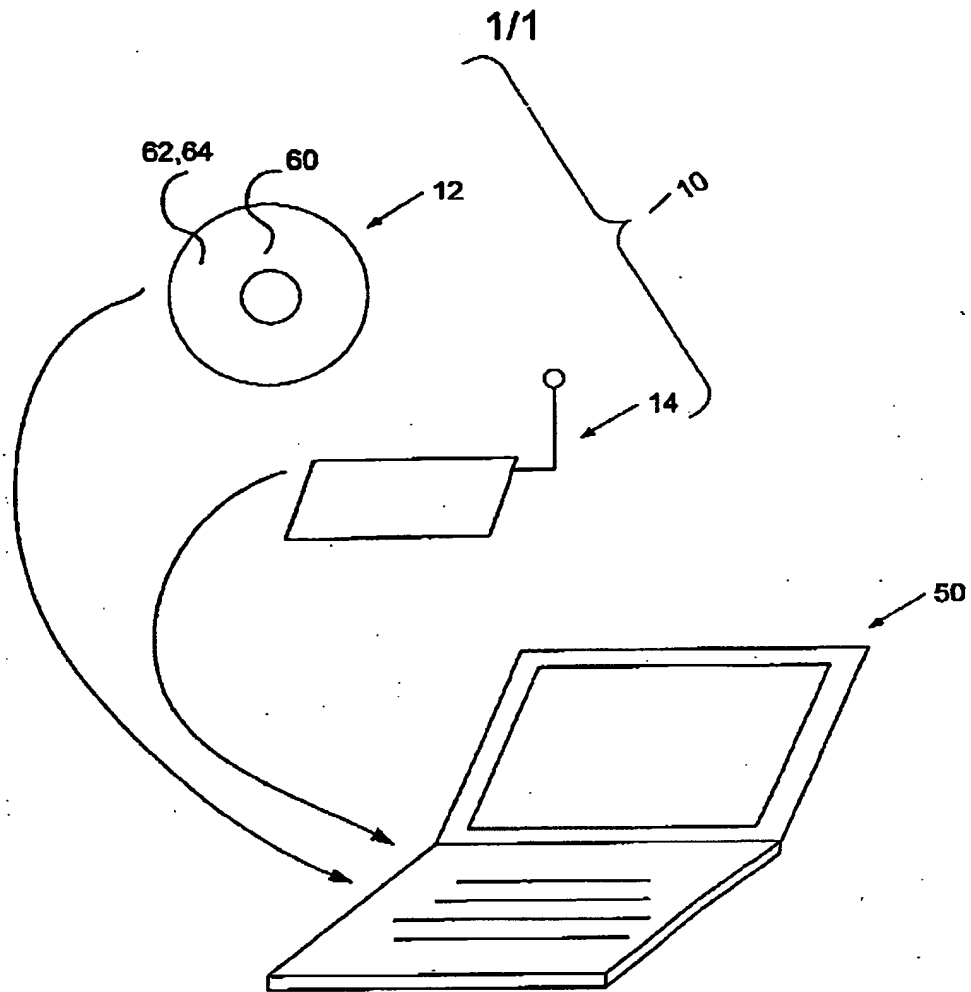


FIG. 1

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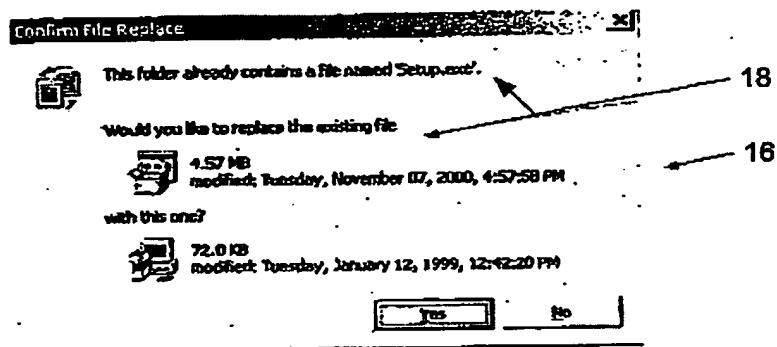


FIG. 2

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Robert Boxall

App. Ser. No.: 09/945,547

Group Art Unit: 2124

Filed: August 30, 2001

Examiner: Ingberg, Todd D

Title: Computer Hardware and Software Installation Apparatus and Method

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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via facsimile to 703-672-6306, Group Art Unit 2124, Commissioner for Patents, Alexandria, VA on December 2, 2004.

By



AMENDMENT AND RESPONSE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Please amend the application as follows:

32/22/2035 DFORTE 62232233 562213 99945547

1 of 5